

Wednesday, April 7, 2010

8:30 a.m. **Field trip to campus (Weather Permitting)**

- **Staking sheets**
 - Sheet layout
 - How to prepare a staking sheet
 - Problem solving

- **National Electric Safety Code**
 - Discussion of clearances
 - Tables

10:00 a.m. **Break (Back to Classroom)**

10:15 a.m. **Line Design Problems**

12:00 p.m. **Lunch**

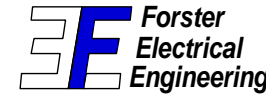
12:45 p.m.

- **Miscellaneous Topics Discussed**
 - Line routing
 - Right-of-way easements and permits
 - Construction contracts
 - Grounding

2:00 p.m. **Open Discussion / Adjournment**

Forster Electrical Engineering
550 N. Burr Oak Ave
Oregon, WI 53575

Ph 608-835-9009
Email: forstereng@forstereng.com
Website: www.forstereng.com



"Excellence in
electrical distribution
design since 1981"



TWO-DAY STAKING SEMINAR

For All Utilities - Beginners and
Experienced Personnel

April 6 & 7, 2010

Sleep Inn and Suites Conference Center
5872 33rd Avenue
Eau Claire, Wisconsin
Hotel Reservations - (715) 874-2900

Registration fee is \$150
To register call Mike Stamper with Dairyland Power
Cooperative at 608-788-1400

Sponsored By:
WECA, Dairyland Power Cooperative
Job Training and Safety Department

Instructors: Steve Hall, Shawn Powell and Jerry Tordoff
from Forster Electrical Engineering

Program Coordinator: Michael J. Stamper CLCP
Dairyland Power Cooperative
JT&S Department
3200 East Avenue South
Lacrosse, WI 54602-0817

This seminar will cover the basics of staking, including practical use of transits and levels, mechanics of staking, staking sheet preparation and construction hardware strengths and limitations.

IMPORTANT: Each attendee is requested to bring an up-to-date copy of the NESC Code Book, REA Spec Books (new and old), pencil, paper and hand calculator.

Tuesday, April 6, 2010

9:15 a.m. **Registration** Coffee and Rolls

9:45 a.m. **Conductor**

- **Definition of a ruling span and why a ruling span is required.**
- **Discussion of conductor sag and tension.**
- **Sag-tension table**
 - Table information
 - Limiting conditions
 - Reading the table

- **Sags**
 - Curves
 - Conversion from table to other span lengths
 - Sag used for ground clearances
 - Sag used for uplift

10:15-10:30 a.m. **Break**

- **Poles**
 - Discussion of pole strengths and forces
 - Pole dimensional and strength table
 - Pole selection table (minimum pole class)
 - Problem solving

12:00 p.m. **Lunch**

1:00 p.m.

- **Guying**
 - Discussion of guy tensions
 - Determination of force to be guyed
 - Line angle
 - Deadend
 - Guying tables
 - Problem solving

2:15-2:30 p.m. **Break**

- **Pole Top Assemblies**
 - General Discussion of various pole top assemblies
 - Allowable insulator loads
 - Maximum line angle for various assemblies

4:00 p.m. **Adjourn**